

1. Overview

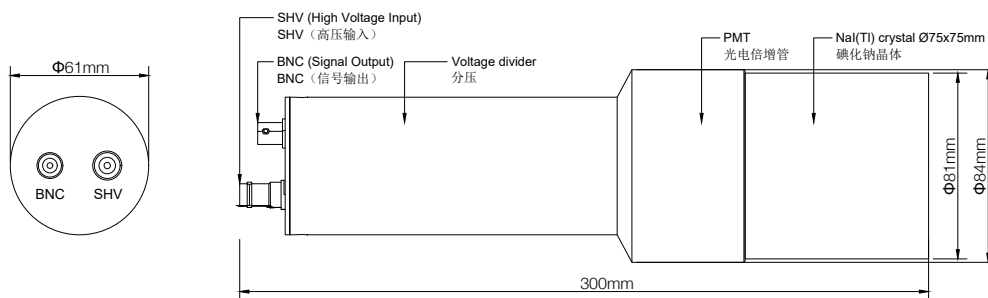


The ENAI-D76H76VD01 NaI scintillation detector is a high-performance radiation detection solution that integrates a 3-inch NaI(Tl) scintillation crystal, a CR160 photomultiplier tube, and a positive high-voltage divider. Featuring a large-sized crystal of $\Phi 75 \times 75 \text{ mm}$, this detector offers high detection efficiency and excellent energy resolution, capable of directly outputting standardized γ -ray energy spectrum analysis signals. Its design balances high performance with flexibility, making it widely applicable in fields such as building material radioactivity testing, food radiation safety assessment, and environmental spectrum measurement. It provides users with precise, stable, and reliable radiation detection data.

2. Main technical parameters

- ▶ Scintillator $\Phi 75 \times 75 \text{ mm NaI(Tl)}$
- ▶ Photomultiplier Tube (PMT) CR160
- ▶ Operating Voltage $+400 \text{ V} \sim +1100 \text{ V}$
- ▶ Energy Resolution $\leq 7.5\%$ (@ ^{137}Cs 662keV)
- ▶ Signal Polarity Negative
- ▶ Connectors SHV (HV input), BNC (signal output)
- ▶ Operating Temperature $-20^\circ \text{C} \sim +65^\circ \text{C}$
- ▶ Weight $\sim 1.8 \text{ kg}$

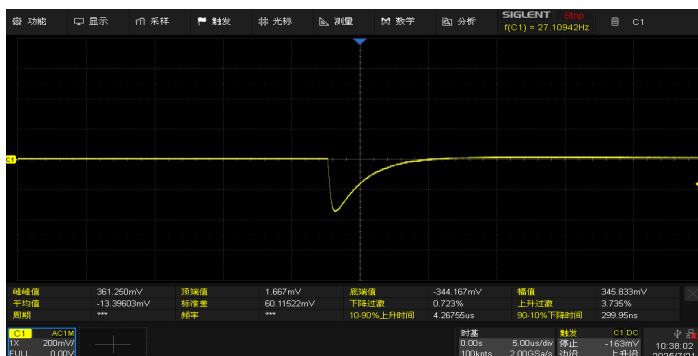
3. Outline Dimensional Drawing



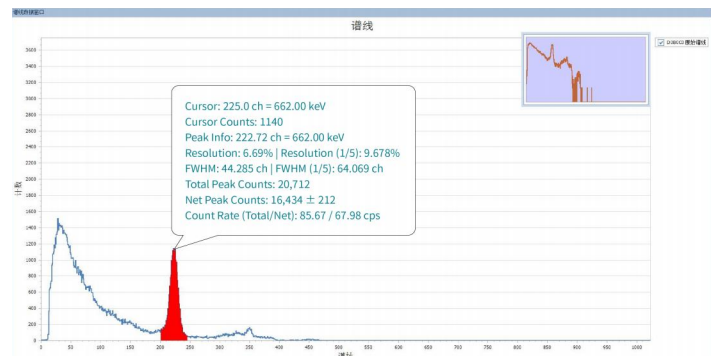
Wiring Instructions

Connector Type	BNC	SHV
Pinout Definition	Signal Output	High Voltage (HV) Input

4. Waveform Test / Energy Resolution Test



● Waveform Test: Signal output, oscilloscope input impedance 1M Ω



● Energy Resolution 6.69% @662keV